

**RE: a question on mid-80s track unload and SC**

**Hilbert, Timothy (hilbertj)** to: Benson.Bob

10/02/2012 08:43 AM

From: "Hilbert, Timothy (hilbertj)" <HILBERTJ@UCMAIL.UC.EDU>

To:

Cc: "brattin@srcinc.com" <brattin@srcinc.com>

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In 1977 and 1978, OM Scott asked for (and received) a few railcars of SC so they could run tests on it. Otherwise, SC was not a source during the 1970's. VA became a source in 1979. So the OSHA report is correct - in 1978 the ore came from Libby and Africa. Our report is also correct – VA ore was used in the 1970s and there were IH samples of SC ore although it wasn't a primary source.

Tim

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**From:** Bob Benson [mailto:Benson.Bob@epamail.epa.gov]

**Sent:** Tuesday, October 02, 2012 9:52 AM

**To:** Leonid Kopylev

**Cc:** Bill Brattin; Danielle DeVoney; David Berry; Hilbert, Timothy (hilbertj); Krista Christensen; Thomas Bateson

**Subject:** Re: a question on mid-80s track unload and SC

The statement on Page 9 of the OSHA report (re: ore sources in 11/30/1978 as Libby and South Africa) does not coincide with the information used by UC to determine the ratio of fibers between Libby and South Carolina ores. UC used the notations on the IH sampling forms in 1977 and 1978 that indicated the source of the ore being used at the time the IH sample was collected (see page F-9). If both pieces of information are correct, my conclusion is that the company switched sources sometime in mid to late 1978.

▼ Leonid Kopylev---10/01/2012 03:36:34 PM---Hmm, at least from the scan that Tim kindly sent, there was no SC or VA ore in 1978. From: Bob Bens

From: Leonid Kopylev/DC/USEPA/US

To: Bob Benson/R8/USEPA/US@EPA,

Cc: "Bill Brattin" <brattin@srcinc.com>, Danielle DeVoney/DC/USEPA/US@EPA, David Berry/R8/USEPA/US@EPA, [HILBERTJ@UCMAIL.UC.EDU](mailto:HILBERTJ@UCMAIL.UC.EDU), Krista Christensen/DC/USEPA/US@EPA, Thomas Bateson/DC/USEPA/US@EPA

Date: 10/01/2012 03:36 PM

Subject: Re: a question on mid-80s track unload and SC

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Hmm, at least from the scan that Tim kindly sent, there was no SC or VA ore in 1978.

▼ Bob Benson---10/01/2012 02:45:38 PM---Between 1980 and 2000, the ore was obtained from South Carolina, Virginia, and Africa. See Appendix

From: Bob Benson/R8/USEPA/US

To: Leonid Kopylev/DC/USEPA/US@EPA

Cc: "Bill Brattin" <[brattin@srcinc.com](mailto:brattin@srcinc.com)>, Danielle DeVoney/DC/USEPA/US@EPA, David Berry/R8/USEPA/US@EPA, [HILBERTJ@UCMAIL.UC.EDU](mailto:HILBERTJ@UCMAIL.UC.EDU), Krista Christensen/DC/USEPA/US@EPA, Thomas Bateson/DC/USEPA/US@EPA

Date: 10/01/2012 02:45 PM

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Between 1980 and 2000, the ore was obtained from South Carolina, Virginia, and Africa. See Appendix F, page F-8.

▼ Leonid Kopylev---10/01/2012 12:34:03 PM---Yes, you are correct/ The data in McDonalds 1988 are IH samples in Enoree. Anyway, by mid-80s, SC

From: Leonid Kopylev/DC/USEPA/US

To: Bob Benson/R8/USEPA/US@EPA,

Cc: "Bill Brattin" <[brattin@srcinc.com](mailto:brattin@srcinc.com)>, Danielle DeVoney/DC/USEPA/US@EPA, David Berry/R8/USEPA/US@EPA, [HILBERTJ@UCMAIL.UC.EDU](mailto:HILBERTJ@UCMAIL.UC.EDU), Krista Christensen/DC/USEPA/US@EPA, Thomas Bateson/DC/USEPA/US@EPA

Date: 10/01/2012 12:34 PM

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Yes, you are correct/ The data in McDonalds 1988 are IH samples in Enoree. Anyway, by mid-80s, SC material was not used for 15 years, right?

Leonid

▼ Bob Benson---09/29/2012 02:24:42 AM---The data in McDonald et al (1988) report fibers in air in various parts of the facility at different

From: Bob Benson/R8/USEPA/US

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Date: 09/29/2012 02:24 AM

Subject: a question on mid-80s track unload and SC

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The data in McDonald et al (1988) report fibers in air in various parts of the facility at different times. As far as I remember, there are no data in the report showing that the fiber content of the raw ore varied with time. Where did

you get this information?

-----Leonid Kopylev/DC/USEPA/US wrote: -----

To: Bob Benson/R8/USEPA/US@EPA

From: Leonid Kopylev/DC/USEPA/US

Date: 09/27/2012 02:59PM

Cc: [brattin@srcinc.com](mailto:brattin@srcinc.com), Danielle DeVoney/DC/USEPA/US@EPA, David

Berry/R8/USEPA/US@EPA, [HILBERTJ@UCMAIL.UC.EDU](mailto:HILBERTJ@UCMAIL.UC.EDU), Krista

Christensen/DC/USEPA/US@EPA, Thomas Bateson/DC/USEPA/US@EPA

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Bob,

I wonder if you have any insight why the Track Unload was consistently high (as high as 10-30 f/cc samples) after 1980, specifically in 1983-1985 and as high as 1-2 f/cc in 1986 (the last year of measurement there). It does not seem to be vermiculite from SC, as McDonald et al (1988)

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1009667/pdf/brjindmed00149-0054.pdf>  
(pages 631-632)

shows that even if SC vermiculite had higher fiber content before 1970, by mid-80s, the fiber content in SC vermiculite was rather low and it cannot explain measurements for Track Unload for mid-80s

Thanks,

Leonid